

## ABSTRACT OF THE DISCLOSURE

A hydrogen generating system is provided for use in internal combustion engines for increasing the efficiency of the engine and decreasing emissions from the engine. The hydrogen generating system has an electrolysis cell for generating hydrogen and oxygen gases by electrolysis of an aqueous solution, a power source for providing electrical power to the electrolysis cell, an outlet flow means for introducing the generated gases into the intake manifold system of an internal combustion engine, a monitoring means for monitoring the operating conditions of the hydrogen generating system, and a control means connected to the monitoring means for controlling the operation of the hydrogen generating system in response to the monitoring means. Various devices and systems are added to facilitate use and overcome previous problems with prior hydrogen generating systems.